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United States Department of Agriculture

BUREAU OF BIOLOGICAL SURVEY—Circular No. 51

LIST OF PUBLICATIONS OF THE BIOLOGICAL SURVEY, DEPARTMENT OF AGRICULTURE.*

1906.

BULLETINS.

- No. 1. The English Sparrow (*Passer domesticus*) in North America, Especially in its Relations to Agriculture. Prepared under the direction of C. Hart Merriam by Walter B. Barrows. Pp. 405, figs. 10, map. 1889. [Out of print.]
- No. 2. Report on Bird Migration in the Mississippi Valley in the Years 1884 and 1885. By W. W. Cooke. Edited and revised by C. Hart Merriam. Pp. 313, map. 1888. [Out of print.]
- No. 3. The Hawks and Owls of the United States in their Relation to Agriculture. By A. K. Fisher. Pp. 210, pls. 26. 1893. [Out of print.]
- No. 4. The Prairie Ground Squirrels or *Spermophiles* of the Mississippi Valley. By Vernon Bailey. Pp. 69, pls. 3, maps 4. 1893. [Out of print.]
- No. 5. The Pocket Gophers of the United States. Prepared under the direction of C. Hart Merriam by Vernon Bailey. Pp. 47, pls. 2, figs. 6, map. 1895. [Out of print.]
- No. 6. The Common Crow of the United States. By Walter B. Barrows and E. A. Schwarz. Pp. 96, pl. 1, figs. 2. 1895. [Out of print.]
- No. 7. Preliminary report on the Food of Woodpeckers. By F. E. L. Beal. The Tongues of Woodpeckers. By F. A. Lucas. Pp. 44, pls. 4, figs. 4. 1895. [Out of print.]
- No. 8. The Jack Rabbits of the United States. By T. S. Palmer. Pp. 84, pls. 7 (including 3 maps), figs. 2. 1896. [Out of print.]
- Same*, revised edition. Pp. 84, pls. 7 (including 3 maps), figs. 2. 1897. [Out of print.]
- No. 9. Cuckoos and Shrikes in their Relation to Agriculture. The Food of Cuckoos, by F. E. L. Beal. The Food of Shrikes, by Sylvester D. Judd. Pp. 26, pl. 1, fig. 1. 1898. Price 5 cents.
- No. 10. Life Zones and Crop Zones of the United States. By C. Hart Merriam. Pp. 79, colored map. 1898. Price 10 cents.
- No. 11. The Geographic Distribution of Cereals in North America. By C. S. Plumb. Pp. 24, maps 4. 1898. Price 10 cents.
- No. 12. Legislation for the Protection of Birds other than Game Birds. By T. S. Palmer. Pp. 94, maps 3, figs. 7. 1900. Price 10 cents.

*Applications for the publications mentioned in this list should be addressed to the Superintendent of Documents, Government Printing Office, Washington, D. C. All remittances should be made payable to him and not to the Department of Agriculture, and should be sent by postal order or by New York exchange.

- Same*, revised edition. Pp. 143, maps 5, figs. 6. 1902. Price 10 cents.
- No. 13. Food of the Bobolink, Blackbirds, and Grackles. By F. E. L. Beal. Pp. 77, figs. 6, map. 1900. Price 5 cents.
- No. 14. Laws regulating the Transportation and Sale of Game. By T. S. Palmer and H. W. Olds. Pp. 89, pls. 9 (including 5 maps). [Out of print.]
- No. 15. The Relation of Sparrows to Agriculture. By Sylvester D. Judd. Pp. 98, pls. 4, figs. 19. 1901. Price 10 cents.
- No. 16. Digest of Game Laws for 1901. By T. S. Palmer and H. W. Olds. Pp. 152, pls. 8 (including 7 maps). 1901. [Out of print.]
- No. 17. Birds of a Maryland Farm. A Local Study of Economic Ornithology. By Sylvester D. Judd. Pp. 116, pls. 17, figs. 41. 1902. Price 15 cents.
- No. 18. Distribution and Migration of North American Warblers. By Wells W. Cooke. Pp. 142. 1904. Price 10 cents.
- No. 19. Hunting Licenses: Their History, Objects, and Limitations. By T. S. Palmer. Pp. 72, pls. 7 (including 2 maps). 1904. Price 10 cents.
- No. 20. Coyotes in their Economic Relations. By David E. Lantz. Pp. 28. 1905. Price 5 cents.
- No. 21. The Bobwhite and Other Quails of the United States in their Economic Relations. By Sylvester D. Judd. Pp. 66, pls. 2, figs. 10. 1905. Price 5 cents.
- No. 22. Birds Known to Eat the Boll Weevil. By Vernon Bailey. Pp. 16. 1905. Price 5 cents.
- No. 23. The Horned Larks and their Relation to Agriculture. By W. L. McAtee. Pp. 37, pls. 2, figs. 13. 1905. Price 5 cents.
- No. 24. The Grouse and Wild Turkeys of the United States and their Economic Value. By Sylvester D. Judd. Pp. 55, pls. 2. 1905. Price 10 cents.

NORTH AMERICAN FAUNA.

- No. 1. Revision of the North American Pocket Mice. By C. Hart Merriam. Pp. 36, pls. 4. 1889. [Out of print.]
- No. 2. Descriptions of Fourteen New Species and One New Genus of North American Mammals. By C. Hart Merriam. Pp. 52, pls. 8, figs. 7. 1889. [Out of print.]
- No. 3. Results of a Biological Survey of the San Francisco Mountain Region and Desert of the Little Colorado, Arizona. By C. Hart Merriam and Leonhard Stejneger. Pp. 136, pls. 14, maps 5 (colored), figs. 2. 1890. Price 25 cents.
- No. 4. Description of Twenty-six New Species of North American Mammals. By C. Hart Merriam. Pp. 60, pls. 3, figs. 3. 1890. [Out of print.]
- No. 5. Results of a Biological Reconnaissance of South-Central Idaho. By C. Hart Merriam and Leonhard Stejneger. Descriptions of a new genus and two new species of North American mammals. By C. Hart Merriam. Pp. 132, pls. 4 (1 colored), figs. 4. 1891. [Out of print.]
- No. 7. The Death Valley Expedition: A Biological Survey of Parts of California, Nevada, Arizona, and Utah. Part II. 1. Report on Birds, by A. K. Fisher; 2. Report on Reptiles and Batrachians, by Leonhard Stejneger; 3. Report on Fishes, by Charles H. Gilbert; 4. Report on Insects, by C. V. Riley; 5. Report on Mollusks, by R. E. C. Stearns; 6. Report on Desert Trees and Shrubs, by C. Hart Merriam; 7. Report on Desert Cactuses and Yuccas, by C. Hart Merriam; 8. List of Localities, by T. S. Palmer. Pp. 402, pls. 15, maps 5, figs. 2. 1893. [Out of print.]

- No. 8. Monographic Revision of the Pocket Gophers, Family Geomyidæ (Exclusive of the Species of *Thomomys*). By C. Hart Merriam. Pp. 258, pls. 20, figs. 71, maps 4 (colored). 1895. Price 35 cents.
- No. 10. Revision of the Shrews of the American Genera *Blarina* and *Notiosorex*, by C. Hart Merriam. The Long-tailed Shrews of the Eastern United States, by Gerrit S. Miller, jr. Synopsis of the American Shrews of the Genus *Sorex*, by C. Hart Merriam. Pp. 124, pls. 12, figs. 3. 1895. [Out of print.]
- No. 11. Synopsis of the Weasels of North America. By C. Hart Merriam. Pp. 44, pls. 6, figs. 16. [Out of print.]
- No. 12. The Genera and Subgenera of Voles and Lemmings. By Gerrit S. Miller, jr. Pp. 84, figs. 40, pls. 3. Price 10 cents.
- No. 13. Revision of the North American Bats of the Family Vespertilionidæ. By Gerrit S. Miller, jr. Pp. 140, pls. 3, figs. 40. 1897. Price 10 cents.
- No. 14. Natural History of the Tres Marias Islands, Mexico. Prepared under the direction of C. Hart Merriam. General Account of the Islands, with Reports on Mammals and Birds, by E. W. Nelson. Reptiles, by Leonhard Stejneger. Notes on Crustacea, by Mary J. Rathbun. Plants, by J. N. Rose. Bibliography, by E. W. Nelson. Pp. 97, map, figs. 2. 1899. [Out of print.]
- No. 15. Revision of the Jumping Mice of the Genus *Zapus*. By Edward A. Preblé. Pp. 42, pl. 1, figs. 4. 1899. [Out of print.]
- No. 16. Results of a Biological Survey of Mount Shasta, California. By C. Hart Merriam. Pp. 179, pls. 5, figs. 46. 1899. [Out of print.]
- No. 17. Revision of American Voles of the Genus *Microtus*. By Vernon Bailey. Pp. 88, pls. 5, figs. 17. 1900. [Out of print.]
- No. 18. Revision of the Pocket Mice of the Genus *Perognathus*. By Wilfrid H. Osgood. Pp. 72, pls. 4 (including 2 maps), figs. 15. 1900. Price 10 cents.
- No. 19. Results of a Biological Reconnaissance of the Yukon Region: General Account of the Region. Annotated List of Mammals, by Wilfrid H. Osgood. Annotated List of Birds, by Louis B. Bishop. Pp. 100, pls. 7 (including map). 1900. [Out of print.]
- No. 20. Revision of the Skunks of the Genus *Chincha* [*Mephitis*]. By Arthur H. Howell. Pp. 62, pls. 8. 1901. Price 10 cents.
- No. 21. Natural History of the Queen Charlotte Islands, British Columbia, and Natural History of the Cook Inlet Region, Alaska. By Wilfrid H. Osgood. Pp. 87, pls. 7 (including map), fig. 1. 1901. [Out of print.]
- No. 22. A Biological Investigation of the Hudson Bay Region. By Edward A. Preble. Pp. 140, pls. 14 (including map). 1902. Price 20 cents.
- No. 23. Index Generum Mammalium: A List of the Genera and Families of Mammals. By T. S. Palmer. Pp. 984. 1904. [Out of print.]
- No. 24. A Biological Reconnaissance of the Base of the Alaska Peninsula. By Wilfrid H. Osgood. Pp. 86, pls. 7 (including 2 maps). 1904. Price 10 cents.
- No. 25. Biological Survey of Texas. By Vernon Bailey. Pp. 222, pls. 16 (including 6 maps), figs. 24 (including 16 maps). 1905. [Out of print.]

CIRCULARS.

- No. 1. Circular on the Food Habits of Birds. By C. Hart Merriam. Pp. 3. 1886. Second edition issued same year. [Out of print.]
- No. 2. Circular on the English Sparrow (*Passer domesticus*). By C. Hart Merriam. P. 1. 1886.

- No. 3. Circular on the Economic Relations of Mammals. By C. Hart Merriam. Pp. 3. 1886. Second edition same year. [Out of print.]
- No. 4. Instructions for the Collection of Stomachs. By C. Hart Merriam. P. 1. 1886. [Out of print.]
- No. 5. Circular to Rice Growers. By C. Hart Merriam. 1886. [Out of print.]
- No. 6. Letter of Acknowledgment of Receipt of Schedule of English Sparrow. 1886. [Not for distribution.]
- No. 7. Circular to Postmasters in Relation to the English Sparrow. 1886. [Not for distribution.]
- No. 8. Circular on the Geographical Distribution and Migration of North American Birds for 1887. By C. Hart Merriam. Pp. 4. 1887.
- No. 9. Circular on Gophers. P. 1. 1888. Second edition in 1889. [Out of print.]
- No. 10. Circular on Killdeer Plover. P. 1. 1889. [Out of print.]
- No. 11. Brief Directions for the Measurement of Small Mammals and the Preparation of Museum Skins. By C. Hart Merriam. Pp. 4, figs. 4. 1889. [Out of print.]
- No. 12. Directions for Collecting the Stomachs of Birds. By C. Hart Merriam. Pp. 3. 1891.
- Nos. 13, 14, 15, 16, 18, 23, 24, 25, 26, 27. Notification (and Receipt) Blanks of Publications Mailed. [Not for distribution.]
- No. 17. Bird Day in the Schools. By T. S. Palmer. Pp. 4. 1896. [Out of print.]
- Same*, reprint. 1905.
- No. 19. Circular [Requests for Information] in Relation to Bounties on Mammals and Birds. P. 1. 1896.
- No. 20. Distribution and Sale of Publications. Pp. 2. 1896. [Out of print.]
- Nos. 21, 22. Geographic Distribution of North American Cereals [Requests for Information]. By C. S. Plumb. 1897.
- No. 28. Directory of State Officials and Organizations Concerned with the Protection of Birds and Game. By T. S. Palmer. Pp. 8. 1900.
- No. 29. Protection and Importation of Birds under Act of Congress Approved May 25, 1900. Pp. 6. 1900.
- No. 30. Wild Animals and Birds which may be Imported without Permits. P. 1. 1900.
- No. 31. Information Concerning Game: Seasons, Shipment, and Sale. By T. S. Palmer and H. W. Olds. Pp. 20. 1900.
- No. 32. Directions for the Destruction of Prairie Dogs. By C. Hart Merriam. Pp. 2. 1901.
- No. 33. Protection of Birds and Game: Directory of State Officials and Organizations for 1901. By T. S. Palmer. Pp. 10. 1901. [Out of print.]
- No. 34. Laws for the Protection of Birds and Game in the District of Columbia. By T. S. Palmer. Pp. 8. 1901.
- No. 35. Directory of State Officials and Organizations Concerned with the Protection of Birds and Game, 1902. By T. S. Palmer. Pp. 10. 1902. [Out of print.]
- No. 36. Importation of Reptiles into Hawaii. P. 1. 1902.
- No. 37. Regulations for the Importation of Eggs of Game Birds for Propagation. Pp. 2. 1902.

- No. 38. Interstate Commerce in Birds and Game. Pp. 3. 1902.
- No. 39. Regulations for the Protection of Game in Alaska. Pp. 6. 1903.
- No. 40. Directory of State Officials and Organizations Concerned with the Protection of Birds and Game, 1903. By T. S. Palmer. Pp. 12. 1904. [Out of print.]
- No. 41. Letter Calling for Data on Migration of Five Species of Birds in the Northwestern United States and British Provinces. By C. Hart Merriam. P. 1. 1904.
- No. 42. Regulations for the Protection of Game in Alaska for the Year 1904. Pp. 6. 1904.
- No. 43. Definitions of Open and Closed Seasons for Game. By Henry Oldys. Pp. 8. 1904.
- No. 45. Warning against Trespass on the Breton Island Reservation. P. 1. 1905.
- No. 46. Directions for Collecting Birds' Stomachs. By C. Hart Merriam. P. 1. 1905.
- No. 47. Recommendations of State Game Commissioners and Wardens for 1905. By T. S. Palmer. Pp. 12. 1905.
- No. 48. [Prohibition of] Importation of Snakes into Hawaii. P. 1. 1905.
- No. 49. Directions for Preparing Specimens of Large Mammals in the Field. By C. Hart Merriam. Pp. 4, figs. 6. 1905.
- No. 50. Directory of State Officials and Organizations Concerned with the Protection of Birds and Game, 1905. By T. S. Palmer. Pp. 16. 1905.

FARMERS' BULLETINS.

- No. 54. Some Common Birds in their Relation to Agriculture. By F. E. L. Beal. Pp. 40, figs. 22. 1897.
- No. 160. Game Laws for 1902. A Summary of the Provisions Relating to Seasons, Shipment, Sale, and Licenses. By T. S. Palmer and H. W. Oldys. Pp. 56, maps 3. 1902.
- No. 180. Game Laws for 1903. A Summary of the Provisions Relating to Seasons, Shipment, Sale, and Licenses. By T. S. Palmer, Henry Oldys, and R. W. Williams, jr. Pp. 56, maps 5. 1903.
- No. 197. Importation of Game Birds and Eggs for Propagation. By T. S. Palmer and Henry Oldys. Pp. 30. 1904.
- No. 207. Game Laws for 1904. A Summary of the Provisions Relating to Seasons, Shipment, Sale, and Licenses. By T. S. Palmer, Henry Oldys, and R. W. Williams, jr. Pp. 64, figs. 5 (maps). 1904.
- No. 226. Relation of Coyotes to Stock Raising in the West. By David E. Lantz. Pp. 24, fig. 1905.
- No. 230. Game Laws for 1905. A Summary of the Provisions Relating to Seasons, Shipment, Sale, and Licenses. By T. S. Palmer, Henry Oldys, and R. W. Williams, jr. Pp. 54. 1905.

REPRINTS OF ARTICLES PUBLISHED IN YEARBOOK.

- Geographic Distribution of Animals and Plants in North America. By C. Hart Merriam. Yearbook for 1894. Pp. 203-214, map. [Out of print.]
- Hawks and Owls from the Standpoint of the Farmer. By A. K. Fisher. Yearbook for 1894. Pp. 215-232, pls. 3, figs. 4. [Out of print.]

- Crow Blackbirds and their Food. By F. E. L. Beal. Yearbook for 1894. Pp. 233-248, fig. [Out of print.]
- Four Common Birds of the Farm and Garden. By Sylvester D. Judd. Yearbook for 1895. Pp. 405-418, figs. 4.
- The Meadow Lark and Baltimore Oriole. By F. E. L. Beal. Yearbook for 1895. Pp. 419-430, figs. 2.
- Extermination of Noxious Animals by Bounties. By T. S. Palmer. Yearbook for 1896. Pp. 55-68. [Out of print.]
- The Blue Jay and its Food. By F. E. L. Beal. Yearbook for 1896. Pp. 197-206, figs. 3.
- Birds that Injure Grain. By F. E. L. Beal. Yearbook for 1897. Pp. 345-354. [Out of print.]
- Danger of Introducing Noxious Animals and Birds. By T. S. Palmer. Yearbook for 1898. Pp. 87-110, pl. 1, figs. 6. [Out of print.]
- Birds as Weed Destroyers. By Sylvester D. Judd. Yearbook for 1898. Pp. 221-232, pl. 1, figs. 7.
- Review of Economic Ornithology in the United States. By T. S. Palmer. Yearbook for 1899. Pp. 259-292, pls. 3 (including 1 map), fig. [Out of print.]
- How Birds Affect the Orchard. By F. E. L. Beal. Yearbook for 1900. Pp. 291-304, figs. 5.
- Food of Nestling Birds. By Sylvester D. Judd. Yearbook for 1900. Pp. 411-436, pls. 5, figs. 9.
- Prairie Dog of the Great Plains. By C. Hart Merriam. Yearbook for 1901. Pp. 257-270, pls. 3, figs. 2.
- Two Vanishing Game Birds. By A. K. Fisher. Yearbook for 1901. Pp. 447-458, pls. 2, figs. 3.
- Audubon Societies in Relation to the Farmer. By Henry Oldys. Yearbook for 1902. Pp. 205-218, pls. 2, figs. 2.
- The Agaves, a Remarkable Group of Useful Plants. By E. W. Nelson. Yearbook for 1902. Pp. 313-320, pls. 4. [Out of print.]
- Some New Facts about the Migration of Birds. By Wells W. Cooke. Yearbook for 1903. Pp. 371-386, maps 2.
- Economic Value of the Bobwhite. By Sylvester D. Judd. Yearbook for 1903. Pp. 193-204, pl. 1.
- Game Protection in 1904. By T. S. Palmer. Yearbook for 1904. Pp. 606-610.
- Some Benefits the Farmer may Derive from Game Protection. By T. S. Palmer. Yearbook for 1904. Pp. 509-520.
- Relations of Birds to Fruit Growing in California. By F. E. L. Beal. Yearbook for 1904. Pp. 241-254.